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	Application No.	Applicant(s)
Notice of Allowability	10/542,828	FUDERER, MIHA
	Examiner	Art Unit
	Dixomara Vargas	2859
The MAILING DATE of this communication appea Il claims being allowable, PROSECUTION ON THE MERITS IS (Cerewith (or previously mailed), a Notice of Allowance (PTOL-85) of IOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in this a or other appropriate communicate GHTS. This application is subject	application. If not included ion will be mailed in due course. <b>THIS</b>
. Mail This communication is responsive to AMendment filed 12/21	<u>1/06</u> .	
. ☑ The allowed claim(s) is/are <u>3-5 and 9-21</u> .		
. ☑ Acknowledgment is made of a claim for foreign priority und a) ☑ All b) ☐ Some* c) ☐ None of the:	ler 35 U.S.C. § 119(a)-(d) or (f).	
1.   Certified copies of the priority documents have be	peen received.	
2.  Certified copies of the priority documents have be	peen received in Application No.	•
<ol><li>Copies of the certified copies of the priority docu</li></ol>	ments have been received in th	is national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	this communication to file a rep NT of this application.	ly complying with the requirements
. A SUBSTITUTE OATH OR DECLARATION must be submitted in the submitted in t	ed. Note the attached EXAMINE reason(s) why the oath or decla	ER'S AMENDMENT or NOTICE OF aration is deficient.
. CORRECTED DRAWINGS ( as "replacement sheets") must I	be submitted.	
(a) I including changes required by the Notice of Draftspersor		O-948) attached
1)  hereto or 2)  to Paper No./Mail Date		·
(b) ☐ including changes required by the attached Examiner's A Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84 each sheet. Replacement sheet(s) should be labeled as such in the	4(c)) should be written on the draw header according to 37 CFR 1.12	wings in the front (not the back) of 11(d).
DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FO	t of BIOLOGICAL MATERIAL OR THE DEPOSIT OF BIOLOG	_ must be submitted. Note the ICAL MATERIAL.
Machine water		
ttachment(s) ☐ Notice of References Cited (PTO-892)	5. Notice of Informal	Patent Application
☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summa	• •
☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail D	oate
Paper No./Mail Date	7. X Examiner's Amen	ament/Comment
Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Stater	ment of Reasons for Allowance
OI BIOIOGICAL MATERIAL	_	
of Biological Material	9. 🔲 Other	
of Biological Material	9.	

## **DETAILED ACTION**

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Thomas E. Kocovsky Jr. on 03/01/07.

The application has been amended as follows:

Please substitute Abstract with the following:

"A magnetic resonance imaging method is presented for forming an image of an object, wherein a stationary magnetic field and temporary magnetic fields having a position dependent field pattern are applied, magnetic resonance signals are acquired by at least one receiver antenna, spins are excitated in a part of the object, MR signals are acquired during application of the position-dependent field patterns (G1, G2,...) and a magnetic resonance image is derived from the sampled magnetic resonance signals. The field patterns are substantially non-linear, the number N of total field patterns is larger than 3, and at least N -1 field patterns are independently controllable in field strength. The magnetic resonance signals are acquired in a sub-sampling fashion."

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## Allowable Subject Matter

2. Claims 3-5 and 9-21 are allowed.

- 3. The following is an examiner's statement of reasons for allowance:
  - a. With respect to claim 3, the claim has been found allowable over the prior art of record because the prior art of record fails to teach or fairly suggest a MRI method for forming an image of an object wherein the position dependent field patterns are substantially non-linear, the number N of total field patterns is larger than 3, and at least N-1 field patterns are independently controllable in field strength in combination with the remaining limitations of the claim.
  - b. With respect to claim 9, the claim has been found allowable over the prior art of record because the prior art of record fails to teach or fairly suggest a computer program product stored on a computer usable medium for forming an image comprising a computer readable program means for causing a computer to control the execution of applying a temporary magnetic fields having position dependent field patterns, said fields being substantially non-linear and a number N of total field patterns being larger than 3, field patterns with different position dependencies relative to at least one of the dimensions in combination with the remaining limitations of the claim.
  - c. With respect to claim 15, the claim has been found allowable over the prior art of record because the prior art of record fails to teach or fairly suggest MRI apparatus comprising a controller which controls the gradient field system to apply the non-linear magnetic field gradients along at least one of the axes with a plurality of different spatial

positions-dependent field patterns in combination with the remaining limitations of the claim.

d. With respect to claims 4, 5, 10-14 and 16-21, the claims have been allowed due to its dependency on claims 3, 9 and 15 above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dixomara Vargas whose telephone number is (571) 272-2252. The examiner can normally be reached on Monday to Thursday from 8:00 am. to 4:30 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on (571) 272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dixomara Vargas

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